



IP4 Rec'd PCT/PTO

09 DEC 2005 #3
P/2850-106
PCI

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Shigeyuki YOKOYAMA, et al.

Date: December 5, 2005

Serial No.: 10/532,948

Group Art Unit: ---

Filed: April 27, 2005

Examiner: ---

For: NON-NATURALLY-OCCURRING AMINO ACID-CONTAINING PROTEIN
EXPRESSION METHOD

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUBMISSION

Sir:

Submitted herewith are copies of prior art, and a copy of a search report issued by an International Searching Authority other than the PTO citing some of the submitted references, a copy of a letter transmitting the search report to Applicant's Japanese counsel, date stamped November 10, 2005, and a Form PTO-1449 listing all of the cited references.

I certify that References 1 and 2 below, of the references cited herein, were cited in a communication from a foreign patent office in a counterpart foreign application and that this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than 30 days prior to the filing of this Submission.

(1) Wang, Lei, et al., "Expanding the Genetic Code of *Escherichia coli*", *Science*, 292:498-500 (2001).

(2) Kowal, A.K., et al., "Twenty-first aminoacyl-tRNA synthetase-suppressor tRNA pairs for possible use in site-specific incorporation of amino acid analogues into proteins in eukaryotes and in eubacteria" *Proceedings of the National Academy of Science*, 98(5):2268-2273 (2001).

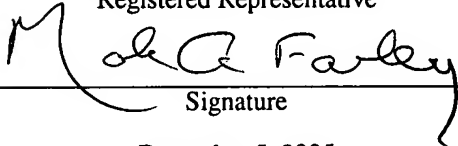
The Examiner is respectfully requested to consider all the references cited herein and to make them of record in the present application.

No fee is believed to be due with this submission, since it is being made prior to issuance of a first Office Action concerning this matter. If any fee is due, however, authorization is hereby provided to charge the required amount to Deposit Account No. 15-0700.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents P.O. Box 1450, Alexandria, VA 22313-1450, on December 5, 2005

Mark A. Farley

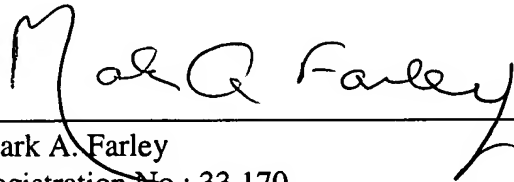
Name of applicant, assignee or
Registered Representative



Signature

December 5, 2005
Date of Signature

Respectfully submitted,



Mark A. Farley

Registration No.: 33,170

OSTROLENK, FABER, GERB & SOFFEN, LLP

1180 Avenue of the Americas

New York, New York 10036-8403

Telephone: (212) 382-0700

MAF:jl
Enclosures

BEST AVAILABLE COPY

APPLICANT'S ART CITATION (Use several sheets if necessary)		Application 10/532,948		OFFICE No. P/2850-106		
		Applicant Shigeyuki YOKOYAMA, et al.				
		Filing Date April 27, 2005		Group Art Unit ---		
U.S. PATENT DOCUMENTS (not submitted for applications filed after 6/30/03)						
Examiner Initial	Document Number	Date MM-YYYY	Name	Class	Sub-class	Filing Date If Appropriate
	US-					
	US-					
FOREIGN PATENT DOCUMENTS						
	Document Number	Date MM-YYYY	Country	Class	Sub-class	Translation
						Yes No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
		Supplementary European Search Report dated November 2, 2005.				
		Wang, Lei, et al., "Expanding the Genetic Code of <i>Escherichia coli</i> ", <i>Science</i> , 292:498-500 (2001).				
		Kowal, A.K., et al., "Twenty-first aminoacyl-tRNA synthetase-suppressor tRNA pairs for possible use in site-specific incorporation of amino acid analogues into proteins in eukaryotes and in eubacteria" <i>Proceedings of the National Academy of Science</i> , 98(5):2268-2273 (2001).				
		Koide, H., et al., "Biosynthesis of a protein containing a nonprotein amino acid by <i>Escherichia coli</i> : L-2-Aminohexanoic acid at position 21 in human epidermal growth factor", <i>Proceedings of the National Academy of Science</i> , 85:6237-6241 (1988).				
		Noren, C.J., et al., "A General Method for Site-Specific Incorporation of Unnatural Amino Acids into Proteins", <i>Science</i> , 244:182-188 (1989).				
		Wang, Lei, et al., "Expanding the Genetic Code of <i>Escherichia coli</i> ", 292:498-500 (2001).				
		Wang, Lei, et al., "Adding L-3-(2-Naphthyl)alanine to the Genetic Code of <i>E. coli</i> ", <i>J. A<. Chem. Soc.</i> , 124(9):1836-1837 (2002).				
		Kiga, D., et al., "An engineered <i>Escherichia coli</i> tyrosyl-tRNA synthetase for site-specific incorporation of an unnatural amino acid into proteins in eukaryotic translation and its application in a wheat germ cell-free system", <i>Proceedings of the National Academy of Science</i> , 99(15):9715-9723 (2002).				
		Kiga, D., et al., "Site-Specific Introduction of 3-Iodotyrosine into Protein in an Cell-Free Translation System of an Eukaryote Using a Mutant Tyrosil-tRNA Synthetase of <i>Escherichia coli</i> ", <i>Seikagaku (Biochemistry)</i> , 74(8):1011 (2002).				
		English Translation of the article titled "Site-Specific Introduction of 3-Iodotyrosine into Protein in an Cell-Free Translation System of an Eukaryote Using a Mutant Tyrosil-tRNA Synthetase of <i>Escherichia coli</i> "				
Examiner		Date Considered				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.						